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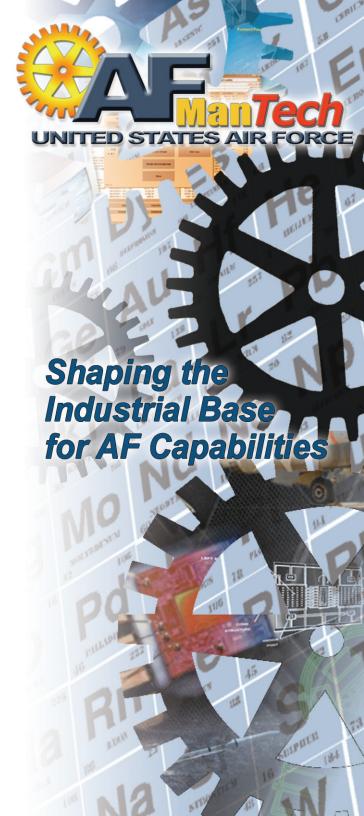
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# Air Force Manufacturing Technology

(AF ManTech)

AF ManTech plans, manages and advocates programs providing advanced manufacturing processes, techniques and technologies for timely, high quality. economical production and sustainment of Air Force systems. A deliberate planning process based on industrial base assessments and high priority Air Force and DoD requirements is followed to pursue programs that will benefit the warfighter the most. AF ManTech has four major investment thrusts, including: Manufacturing Readiness: Program **Executive Office (PEO) Affordability/** Producibility: Sustainment: and **Industry Partnerships.** 

Requirements developed in each of these thrusts drive activities across all Air Force domains:

- Aeronautical
- Armament
- Directed Energy Systems
- Command & Control, Intelligence, Surveillance & Reconnaissance (C2ISR) Electronics
- Space Systems

## AF ManTech's Investment Strategy

### **Manufacturing Readiness**

Accelerate technology transition from laboratories to programs and reduce acquisition program risk

- Assess ATD and ACAT program manufacturing readiness / risk in partnership with program managers
- · Identify cross-cutting manufacturing issues
- Develop and demonstrate manufacturing processes for new technologies
- Mature Manufacturing Readiness Levels (MRL) in parallel with Technology Readiness Levels (TRL)

### PEO Affordability/Producibility

Provide new capability to warfighter and reduce cost and schedule growth of acquisition programs

- Improve existing manufacturing processes
- Establish new manufacturing processes
- · Exploit advanced business practices
- Expedite transition of emerging technology
- · Enhance supplier manufacturing processes

#### Sustainment

Improve responsiveness and manufacturing capability of depots and supplier base

- Establish advanced manufacturing technology at Original Equipment Manufacturers (OEMs) and suppliers
- · Reduce depot cycle times and costs

## **Industry Partnerships**

Partner with industry OEMs and suppliers to implement revolutionary manufacturing technologies

- Accelerate next generation manufacturing processes
- · Develop pervasive manufacturing technologies
- · Create new manufacturing processes

## ManTech Portfolio Highlights

## Manufacturing Readiness Assessments (MRAs)

Assessing manufacturing readiness and risks within the context of technology readiness, and end product availability and cost

## Active Electronically Scanned Array (AESA) Radar

Develop manufacturing improvements to critical system components of current and next generation AESA systems



#### **Datalink Components**

Attack manufacturing cost and availability drivers for net-centric air and space warfare

### **Affordable Stealth-Enabling Technologies**

Partner with industry to establish robust, affordable, and reliable current and next generation manufacturing processes for stealth technologies

## **Engine Rotor Life Extension (ERLE)**

Develop new inspection and life prediction processes to certify life extension of high value turbine engine parts



## Purchase and Supply Chain Management (PSCM)

Transition technologies and process improvement into supply base and depots